Technical XML Specifications

Contents

1.	Purpose	3
2.	Manifest Message Group Elements	3
2	.1 Structure	3
2	.2 Group Elements	6
2	.4 Line Items	10
3.	XML Special Characters	16

1. Purpose

This document sets out Freman EDI specific fields that are required to allow an XML file to be imported into Freman through Mainfreight EDI or local file upload from a client PC running Freman in a support web browser.

2. Manifest Message Group Elements

2.1 Structure

Status

- M = Mandatory
- C = Conditional
- D = Dependant. Usage is based on another field.See explanation or usage matrix.
- DM = Mandatory if the Group Element is used

Туре

- an..50 = Alphanumeric, up to 50 characters
- an..35 = Alphanumeric, up to 35 characters
- an..30 = Alphanumeric, up to 30 character
- an19 = Alphanumeric, always 19 characters
- n..10 = Numeric, up to 10 digits with no decimal

TAG	Status	Repetition	Туре	Notes
<message></message>	Μ	1	Root	
<message header=""></message>	Μ	1	Group	
<messagebody></messagebody>	Μ	1	Group	
<consignments></consignments>	Μ	1	Group	
<consignment></consignment>	Μ	1n	Group	
<profilename></profilename>	С	1	an40	>Intended Freman profile name.
				>Set up by Super User configured for business case; dispatch point, service required, business units etc. Blank, wrong or missing value = Default profile
<consigmentno></consigmentno>	M	1	an14	Prefixes must be confirmed with Mainfreight IT team and account manager Prefix = 1 Alpha Min, 4 Alpha Max. Numerical = 14 – Prefix = Maximum. Maximum 14 alphanumeric characters overall.
<consignmentdate></consignmentdate>	Μ	1	an10	Date (format: yyyy-mm-dd). This value is currently replaced with the current date on import. Can be Future Dated.
<email></email>				
<ediemail></ediemail>		Group (see details below)		Triggers dispatch documentation based on nominated email address. Useful for non-standard senders
<movementtype></movementtype>	С	1	an3	Blank or FCL (NZ Only)
<party></party>	Μ	13	Group (see details below)	 (C) Role = "CHARGE" (C) Role = "SENDER" (M) Role = "RECEIVER" CHARGE – Billing account SENDER – Sending location RECEIVER – Recipient of goods
<reference></reference>	С	12	an40	Primary References: (C) Role = "SENDER" (C) Role = "RECEIVER"
<references></references>	С	1	Group	
<reference></reference>	С	0n	an500	Additional References: (C) Type = "Receiver ref" (C) Type = "Sender ref" (C) Type = "OCON" OCON stands for original consignment.

n..13.2 = Numeric, up to 10 digits (plus an optional point and up to 2 decimal places)

TAG	Status	Repetition	Туре	Not	tes
<carrier></carrier>	M	1	an2	Mainfreight Group: MF – Mainfreight DF – Dailyfreight CC – Chemcouriers OW – Owens MMF – Mainfreight Metro M2H – Mainfreight 2Home	Group: (NZ Only) NZC – New
<servicerequired></servicerequired>	С	1	an3	New Zealand: LCL, MET, PRM, PLA, FTL, MOV, M2H, B2B If blank or missing, LCL is assumed <service level=""> is the field as this is known in Mainstreet</service>	Australia: EXP If blank or missing, EXP is assumed. <service level=""> is the field as this is known in Mainstreet</service>
<pre><freightterms></freightterms></pre>	M	1	an4	NZ ONLY Required to define if be dropped in to a D from a DEPOT. Freights Terms shou D2D – Required if cu pickup and a delivery DP2D – Required if of in to a DEPOT but re be made D2DP – Required if of Pickup but wants the up from the DEPOT DP2DP – Required if dropping in to a DEP requires freight to be DEPOT	Ild be: Istomer needs a y to be made customer is dropping equires a Delivery to customer needs a e freight to be picked at the Delivery site f customer is POT and also
<pickupinstructions></pickupinstructions>	С	1	an150	Check if this is actua they just leave blank	
<deliveryinstructions></deliveryinstructions>	С	1	an150	Check if this is actua they just leave blank	

<line></line>	М	140	Group	
<hire></hire>	С	14	Group	
<booking></booking>	С	1	Group	
<contract></contract>	С	1	Group	NZ Only
<total></total>	M	13	Group (see details below)	Units = "ITEMS" Units = "CUBIC" Units = "WEIGHT"
<item></item>	М		Group	
<notifications></notifications>				
<notification></notification>			Group (see details below)	
<controltotal></controltotal>	M	1	Group	
<total></total>	M	1	n10	Units = "CONSIGNMENTS"

2.2 Group Elements

TAG <messageheader>1</messageheader>	Status	Repetition	Туре	Notes
<messageheader></messageheader>	М	1		
<senderid></senderid>	Μ	1	an10	To be confirmed with Mainfreight IT - typically customer name is applied
<recipientid></recipientid>	М	1	an50	MAINFREIGHT
<prepared></prepared>	Μ	1	an19	Date and Time (format: yyyy-mm-ddThh:mm:ss, eg 2012-12-25T05:30:00)
<messageid></messageid>	Μ	1	an150	
<messagetype></messagetype>	Μ	1	an50	MANIFEST
<messageversion></messageversion>	Μ	1	an2	02
<mftid></mftid>	Μ	1	n10	To be confirm by Mainfreight IT

<mergeoption></mergeoption>	M	1	an16	 2 values are permitted: MergeOverwite – overwrite an existing note if found MergeNoOverwrite – do not import if a note with the same
				ConsignmentNo exists
TAG - <ediemail> 0+</ediemail>	Status	Repetition	Туре	Notes
<ediemail></ediemail>	М	1n		
<toaddress></toaddress>	DM	1	Email: an150	The email address consignment documentation is to be delivered to should be less than 150 characters.
TAG <party> 13</party>	Status	Repetition	Туре	Notes
<party role="CHARGE"></party>	М	1		Role = "CHARGE" Role = "SENDER" Role = "RECEIVER" See Party Role / Field Matrix
<code></code>	D	1	an50	To be confirmed with account manager
<name></name>	D	1	an35	Business Name
<address1></address1>	D	1	an30	
<address2></address2>	С	1	an30	
<suburb></suburb>	С	1	an50	Mainfreight can supply Suburb/City table based on TMS mapping. Please request
<city></city>	D	1	an50	accordingly. Alternatively, data validated from Google's Addressing API prior to EDI is recommended.
<state></state>	D	1	an4	(AU Only)
<postalcode></postalcode>	D	1	an10	(AU Only)
<contact></contact>	С	1	An50	Contact Persons Name
<phone></phone>	С	1	an15	
<lsdc></lsdc>	С	1	an5	True/False (AU and Receiver Only)

TAG <notification> 0+</notification>	Status	Repetition	Туре	Notes
<notification></notification>	М	1		
<event></event>	DM	1		 One of: InformationReceived PickedUp InTransit AtDeliveryDepot OnDeliveryVehicle (NZ only), DueForDelivery (AU only) Delivered
<toaddress></toaddress>	DM	1	Email: an10 SMS: an24	The email address or full SMS phone number, including two-digit country code, two-digit network code and phone number. Allowed characters: numbers only ie: no spaces, hyphens plus-signs etc.
<transporttype></transporttype>	DM	1		One of: • Email • SMS

2.3 Party Role / Field Matrix

Field	CHARGE	SENDER	RECEIVER
<code></code>	M	М	M
<name></name>	С	С	С
<address1></address1>	С	С	С
<address2></address2>	С	С	С
<suburb></suburb>	С	С	С
<city></city>	(C) NZ (N/A) Australia	(C) NZ (N/A) Australia	(C) NZ (N/A) Australia
<state></state>	(C) Australia (N/A) NZ	(C) Australia (N/A) NZ	(C) Australia (N/A) NZ
<postalcode></postalcode>	(C) Australia (N/A) NZ	(C) Australia (N/A) NZ	(C) Australia (N/A) NZ
<phone></phone>	N/A	М	С
<isdc></isdc>	N/A	N/A	(C) Australia (N/A) NZ

- If the <Code> only is supplied, Freman will look up the code in its own database. If a match is found, the remaining details will be populated for you. i.e. Charge, Sender or Receiver Code.
- If the code and any mixture of the remaining fields are supplied, the note will need to be completed once it is imported into Freman.

2.4 Line Items

TAG - <line> 140</line>	Status	Repetition	Туре	Notes
<line></line>	Μ	1		
<lineno></lineno>	Μ	1	n2	Freman line number. A maximum of 40 lines per consignment note is supported
<items></items>	С	1	n10	
<description></description>	М	1	an.32	
<measurement></measurement>	С	12	Group	Property = "CUBIC" [Meters i.e 0.6] Property = "WEIGHT" [Kilograms]
<dangerousgoods></dangerousgoods>	С	1	Group	
<dimensions></dimensions>	С	1	Group	
<packtypecode></packtypecode>	(M) NZ (C) AU	1	an8	Mainfreight Code List
<saidtocontain></saidtocontain>	С	1n	Group	Used to define items sent within a Line Item. Example scenario: 1 Pallet, STC 100 Cartons Said to contain lines must be in the file as child node(s) to a <line> node. Total Number of <line> and <saidtocontain> lines cannot be more than 40.</saidtocontain></line></line>
TAG - <saidtocontain> 1n</saidtocontain>	Status	Repetition	Туре	Notes
<line></line>	М	1		
<ltems></ltems>	С	1	n10	Blank can be imported
<description></description>	М	1	an32	
<measurement></measurement>	С	12	Group	Property = "CUBIC" Property = "WEIGHT"
<itemnumbers></itemnumbers>	С	1	Group	SSCC information
<dangerousgoods></dangerousgoods>	С	1	Group	
<dimensions></dimensions>	С	1	Group	
<packtypecode></packtypecode>	М	1	An8	Mainfreight Code List

TAG - <measurement> 12</measurement>	Status	Repetition	Туре	No	otes
<measurement></measurement>	Μ	1		Property = "CUBIC" Property = "WEIGH	
<value></value>	Μ	1	n13.2	Weight is n10.0	Cubic is n10.2
<unit></unit>	Μ	1	an2	Cubic = M3	Weight = KG

TAG - <dangerousgoods> 140</dangerousgoods>	Status	Repetition	Туре	Notes
<dangerousgoods></dangerousgoods>	С	1		
<dgclass></dgclass>	С	1	an10	
<unnumber></unnumber>	С	1	an10	
<dgproductclass> *Known as MainchainDGCode</dgproductclass>	С	1	an20	Freman dangerous goods product class. This code must match a saved Freman dangerous goods record code. If the target profile is set to Use Customer's Own DG Documents (in Company Options) this is not required.
TAG - <itemnumbers> 1</itemnumbers>	Status	Repetition	Туре	Notes
<itemnumbers></itemnumbers>	С	1		
<ltem></ltem>	С	1n		Repeated per each SSCC
<ssccnumber></ssccnumber>	С	1	n18	To register please visit: https://www.gs1nz.org/ https://www.gs1au.org/
<td></td> <td></td> <td></td> <td></td>				
TAG - <dimensions> 1</dimensions>	Status	Repetition	Туре	Notes
<dimensions></dimensions>	С	1		
<length></length>	С	1	n13.2	
<width></width>	С	1	n13.2	
<height></height>	С	1	n13.2	
<td></td> <td></td> <td></td> <td></td>				

TAG - <hire> 14</hire>	Status	Repetition	Туре	Notes
<hire></hire>	С	1		
<hirecompany></hirecompany>	DM	1	an10	C – Chep L -Loscam
<hiretype></hiretype>	DM	1	an1	R – Retrieval (Used to generate retrieval process by Mainfreight Group) (AU and NZ)
				T – Transfer (used to transfer directly onto specified account) (NZ Only) N – No Transfer - If NOTRANSFER is used then no transfer batch file will be generated for the hire pallets. (NZ Only)
<hireaccount></hireaccount>	DM	1	an10	If left blank, will be auto-populated with expected delivery branch hire account. If <hiretype> = R then Mandatory.</hiretype>
<equipmenttype></equipmenttype>	DM	1	an10	P – Pallet
<quantity></quantity>	DM	1	n10	

TAG - <booking> 1</booking>	Status	Repetition	Туре	Notes
<booking></booking>	C	1		Used for timeslots at Distribution Centre's or any timeslot deliveries.
<required></required>	DM	1	an12	Required, NotRequired, Confirmed
<bookinform></bookinform>	С	1	an19	Date and Time (format: yyyy-mm- ddThh:mm:ss) Mandatory if Confirmed is used.
<bookinto></bookinto>	С	1	an19	Date and Time Mandatory if Confirmed is used
<bookinref></bookinref>	С	1	an20	
TAG - <contract> 1</contract>	Status	Repetition	Туре	Notes
<contract></contract>	С	1		NZ only. If not supplied, "LCR" is assumed.
<contracttype></contracttype>	DM	1	an3	LCR – Limited Carriers Risk OR – Owner's Risk DV – Declared Value

<declaredvalue></declaredvalue>	D	1	n13.2	Value in dollar terms must be supplied for Declared Value consignments (DV)

2.5 Data Elements/Glossary

MessageID When importing notes via Mainfreight EDI (Not browsing for local files using the Freman UI), this value will be recorded in the EDI log as the name of the source file.

MFTID This number, supplied by Mainfreight, is your unique customer identifier.

ProfileName The Freman profile name that the EDI note will be imported into. This is optional. The profile name, if specified, needs to be added for each <Consignment> in the file. The profile name, if specified, overrides the following checks.

If the profile name is not supplied, Freman will use the supplied charge and / or sender codes to determine the profile that the note will be imported into using the following rules:

- If the charge code for a given note in the EDI XML matches a single profile EDI charge code (company options setting), the note will be inserted under this profile.
- If the charge code for a given note does not match a EDI charge code (company options setting) for any profile, the note will be inserted under the company default profile.
- If the same EDI charge code (company options setting) is set for multiple profiles, Freman will attempt to match one of these profiles using the EDI charge code (company options setting) and EDI Sender code (company options setting).
 - If no match is found, Freman will check to see if one of the profiles with a matching EDI charge code (company options setting) is found. If the company default profile matches, it will be used. If not, the first matching profile found will be used.
 - If a single match is found, Freman will use this profile.
 - If multiple matches are found, Freman will use the Company default profile if it is a match. Otherwise, Freman will use the first matching profile found.
- If the EDI XML does not contain a charge code, the note will be inserted under the company default profile.
- If, for any reason, the company does not have a profile marked as default, the note will be inserted into the first profile found for that company.

EDIEmail Utilising this EDIEmail function, Freman will automatically email the documentation to the specified email address if all details in the consignment note are 100% valid on import. A great feature for emailing consignment documentation to third parties or prior to collection for stock returns.

Specify the email addresses to which the documentation is to be sent to. Freman will email the documents based off the document types selected for printing against the

	profile. If the Consignment Note print option is selected, then the consignment note will be uploaded to our internal Transport Management System (TMS) If an error occurs while importing, the error list will be sent to the EDI error email set on the profile, i.e. the profile under the ProfileName tag in the EDI XML.
Service Required	The values allowed here depend on what is configured for the target customer in Freman. The services utilised must be confirmed with your account manager.
ServiceType	The values allowed here depend on what is configured for the target customer in Freman.
	If MET ServiceRequired is used, use MET ServiceType. For all other ServiceRequired options, pair with LCL ServiceType.
SenderID	Agreed code to represent sender of the message.
RecipientID	Agreed code to represent recipient of the message (MAINFREIGHT).
Prepared	Date and time that the message was prepared / created.
MessageID	Reference number for the message, to assist with tracing.
Carrier Code	Company responsible for the carriage of goods.
Party Code	Charge and Sender Codes supplied by Mainfreight.
Name	Customer Name.
Address	Physical street address goods sent to and from. (P.O Boxes and International addresses are not supported).
Consignment No	Unique reference to identify the consignment, this can be your invoice or packing slip number preceded by a prefix supplied by Mainfreight.
Consignment Date	Date goods are ready for collection or have been collected.
Movement Type	Used to indicate if this is an FCL consignment.
Reference	Customer references to appear on statement and delivery receipts, also assists in the tracking of the consignment.
SSCC	Serial Shipping Container Code; Item scanning. Registered and administered by the GS1 body. See GS1AU.org or GS1NZ.org for more details
VIP Email	A special service only supplied by arrangement. Email address(es) to be notified of conditions being tracked.
Items	Count of the goods being physically handled.
PackagingType	Type of packages of the goods.
Description	Description of goods.
Measurement	Cubic measure and weight of the goods.
DG Class	Declared hazard class of the goods.
UN Number	Declared dangerous goods UN number of the goods.
Dimensions	Measurement of goods in metres – Length, Width and Height.
Hire Company	Company the equipment has been hired from: C – Chep, L – Loscam.
Hire Type	Type of transaction: R – Triggers a pallet retrieval by the Expected Delivery branch; T – Transfer pallets off your CHEP account directly onto another specified account (eg. Directly onto the end receiver account). N – No Transfer to omit batches being created

Cost Totals Phone IsDC DeliveryInstructions	The expected cost of the consignment. Control totals to validate the content of the consignment and message. A phone number for sender or recevied entries. Flag to indicate whether a recevier is a distribution centre - AU only Special instructions for the delivery, can be on several lines.
PackTypeCode Hire Account	Pack Type of goods. Available list of supported codes below. Account number that the equipment needs to be de-hired from (To Account). If Hire Account is left blank, this will be auto-populated by Freman with the Expected Delivery Branch hire account. For No Transfer, use NOTRANSFER. NOTE: A pallet agreement MUST be signed with your account manager/local branch before pallets are allowed to be sent in our transport petwork.
Equipment Type Quantity Booking Contract	 before pallets are allowed to be sent in our transport network. Type of hire equipment: P – Pallet; N – No Transfer Count of the equipment to be de-hired. Indicates that a booking must be made to organise the delivery of the goods. Type of contract for the carriage of goods: LCR – Limited Carriers Risk, DV Declared Value, OR – Owners Risk.
	1. Freman AU Supported Commodities/Pack Types

Freman AU Supported Commodities/Pa		
Pack Type Code	Description	
BAG	BAG	
BDL	BUNDLE	
CRT	CRATE	
CTN	CARTON	
DRM	DRUM	
IBC	IBC	
ITEM	ITEM	
PAIL	PAIL	
PK	PACK	
PLT	PALLET	
ROLL	ROLL	
SK	SKID	
ST	STILLAGE	

2. Freman NZ Supported Commodities/Pack Types

Pack Type Code	Description
BAG	BAG
BDL	BUNDLE
CTN	CARTON
DRM	DRUM
IBC	IBC
ITEM	ITEM
PAIL	PAIL
PLT	PALLET

ROLL	ROLL
ST	STILLAGE

3. XML Special Characters

The characters &, " and ' can all be used un-encoded in XML being sent to Freman.

The characters < and > cannot be used inside nodes. [Refer next page]

<?xml version="1.0" encoding="utf-8"?> <Message> <MessageHeader> <MessageType>MANIFEST</MessageType> <MessageVersion>02</MessageVersion> <MergeOption>MergeNoOverwrite</MergeOption> <SenderID>TEST</SenderID> <RecipientID>MAINFREIGHT</RecipientID> <Prepared>2012-10-3T13:51:25</Prepared> <MessageID>12031213512501</MessageID> <MFTID>123456</MFTID> </MessageHeader> <MessageBody> <Consignments> <Consignment> <ProfileName>Test</ProfileName> <ConsignmentNo>ABC123456</ConsignmentNo> <ConsignmentDate>2018-11-13</ConsignmentDate> <Emails> <EDIEmail> <ToAddress>testemail@email.com</ToAddress> </EDIEmail> <EDIEmail> <ToAddress>otheremail@email.com</ToAddress> </EDIEmail> </Emails> <Party Role="CHARGE"> <Code>ABCIND</Code> <Name>ABC INDUSTRIES</Name> <Address1>123 ABC STREET</Address1> <Address2></Address2> <Suburb>TAKANINI</Suburb> <City>AUCKLAND</City> </Party> <Party Role="SENDER"> <Code>ABCIND</Code> <Name>ABC INDUSTRIES</Name> <Address1>123 ABC STREET</Address1> <Address2></Address2> <Suburb>TAKANINI</Suburb> <City>AUCKLAND</City> </Party> <Party Role="RECEIVER"> <Code>DEMO999</Code> <Name>DEMO COMPANY</Name> <Address1>999 DEMO ROAD</Address1> <Address2>C/- DEMO USER</Address2> <Suburb></Suburb> <City>TOKOROA</City> <PostCode></PostCode> </Party>

<Reference Role="SENDER">ABC-123S</Reference> <Reference Role="RECEIVER">DEM-999</Reference> <References> <Reference Type="Sender ref">Additional ref</Reference> <Reference Type="Receiver ref">Additional ref</Reference> <Reference Type="OCON"></Reference> </References> <Carrier>MF</Carrier> <ServiceRequired>LCL</ServiceRequired> <ServiceType>LCL</ServiceType> <Booking> <Required>CONFIRMED</Required> <BookInFrom>2013-10-11T08:00:00</BookInFrom> <BookInTo>2013-10-11T10:00:00</BookInTo> <BookInRef>AC72AOTEAROA</BookInRef> </Booking> <DeliveryInstructions>INWARDS GOODS DOOR IS AT END OF LONG DRIVEWAY PAST THE RECEPTION BUILDING</DeliveryInstructions> <Line> <ltems>1</ltems> <Description>PALLET OF DGS</Description> <Measurement Property="CUBIC"> <Value>0.73</Value> <Unit>M3</Unit> </Measurement> <Measurement Property="WEIGHT"> <Value>46</Value> <Unit>KG</Unit> </Measurement> <ltemNumbers> <ltem> <SSCCNumber>00493362500146055216</SSCCNumber> </ltem> <ltem> <SSCCNumber>00493362500146055217</SSCCNumber> </ltem> <ltem> <SSCCNumber>00493362500146055218</SSCCNumber> </ltem> </ltemNumbers> <PackTypeCode>PLT</PackTypeCode> <DangerousGoods> <DGClass>3, 8</DGClass> <UNNumber>2924</UNNumber> <DGProductClass>3MD2924</DGProductClass> </DangerousGoods> <SaidToContain> <ltems>4</ltems> <Description>CARTONS</Description> <Measurement Property="CUBIC"> <Value>0.43</Value> <Unit>M3</Unit> </Measurement> <Measurement Property="WEIGHT"> <Value>43</Value> <Unit>KG</Unit> </Measurement> </SaidToContain> <SaidToContain> <ltems>8</ltems> <Description>PAILS</Description>

<Measurement Property="CUBIC"> <Value>0.3</Value> <Unit>M3</Unit> </Measurement> <Measurement Property="WEIGHT"> <Value>3</Value> <Unit>KG</Unit> </Measurement> </SaidToContain> </Line> <l ine> <ltems>2</ltems> <Description>PALLETS</Description> <Measurement Property="CUBIC"> <Value>1</Value> <Unit>M3</Unit> </Measurement> <Measurement Property="WEIGHT"> <Value>100</Value> <Unit>KG</Unit> </Measurement> <PackTypeCode>PLT</PackTypeCode> <SaidToContain> <ltems>4</ltems> <Description>TEST DG</Description> <Measurement Property="CUBIC"> <Value>0.1</Value> <Unit>M3</Unit> </Measurement> <Measurement Property="WEIGHT"> <Value>1</Value> <Unit>KG</Unit> </Measurement> <DangerousGoods> <DGClass>3, 8</DGClass> <UNNumber>2924</UNNumber> <DGProductClass>3MD2924</DGProductClass> </DangerousGoods> </SaidToContain> </Line> <Hire> <HireCompany>C</HireCompany> <HireType>R</HireType> <HireAccount></HireAccount> <EquipmentType>P</EquipmentType> <Quantity>1</Quantity> </Hire> <Contract> <ContractType>DV</ContractType> <DeclaredValue>13.2</DeclaredValue> </Contract> <Notifications> <Notification> <Event>InformationReceived</Event> <ToAddress>testemail@email.com</ToAddress> <TransportType>Email</TransportType> </Notification> </Notifications> </Consignment> </Consignments> <ControlTotal>

<Total Units="CONSIGNMENTS">1</Total> </ControlTotal> </MessageBody> </Message>